

>gi|20544143|ref|NM_001893.3| Homo sapiens casein kinase 1, delta
(CSNK1D), transcript variant 1, mRNA
GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
GCGGGGAGAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCTCGGACTGTCCCATCCGC
CCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCGGTGAGGGGGGC
GGAGCCGGGAGCCGGACCCGAGTAGCGGCAGCAGCGGCGCCGCTCCAGAGTTTCAAGCCAGGAAGCG
GCCGGGAGGGCAGGAGCGAATCGGGCCGCGCCGCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGG
GCCGGAAGATCGGCAGCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGT
TGCCATCAAGCTTGAATGTGTCAAAACCAAACACCCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATG
ATGCAGGGAGGAGTGGGCATCCCCACCATCAGATGGTGCGGGGCAGAGGGGGACTACAACGTCATGGTGA
TGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTCAGCCTCAAAACCGT
CCTGCTGCTTGCTGACCAATGATCAGTCGCATCGAATACATTCAATCAAAGAAGTTTATCCACCGGGAT
GTGAAGCCAGACAACCTTCTCATGGGCTTGGGGAAGAAGGGCAACCTGGTGTACATCATCGACTTCGGGC
TGGCCAAGAAGTACCGGGATGCACGCACCCACCAGCACATCCCCATCGTGAGAACAAGAACCTCACGGG
GACGGCGCGGTACGCCTCCATCAACACGCACCTTGGAAATGAACAATCCGAAGAGATGACTTGGAGTCT
CTGGGCTACGTGCTAATGTACTTCAACCTGGGCTCTCTCCCCCTGGCAGGGGCTGAAGGCTGCCACCAAGA
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TTCCGAATTTGCCACATACCTGAATTTCTGCCGTTCTTTCGCTTTTGACGACAAGCCTGACTACTCGTAC
CTGCGGCAGCTTTTCCGGAATCTGTTCCATCGCCAGGGCTTCTCCTATGACTACGTGTTTTCGACTGGAACA
TGCTCAAATTTGGTGCCAGCCGGGCGCGCATGACGCCGAGCGGGAGCGCAGGGACCGAGAGGAGCGGCT
GAGACACTCGCGGAACCCGGCTACCCGCGGCTCCCTTCCACAGCCTCCGGCCGCTGCGGGGACGCGAG
GAAGTGCTCCCCCACACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCGTCTCCG
GCATGGAGAGAGAGCGGAAAGTGAGTATGCGGCTGCACCGCGGGGCCCCGTCAACATCTCCTCGTCCGA
CCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGATTCTTGGTGGGTGGCTTCCAGTGGT
CTTCAGTCTGTGCTGCACCGATGAGAACTCTCCTTATTGCTGTGAAGGGCAGACAATGCATGGCTGATCT
ACTCTGTTACCAATGGCTTTACTAGTGACACGTCCCCCGGTCTAGGATCGAAATGTTAACACCGGGAGCT
CTCCAGGCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTCCAAGAGCTGCCAC
CGCTGGGGCTGCACTGCGGCCCCCACGTGAACCTCGGTTGTAACGGGGCTGGGAAGAAAAGCAGAGAGAG
AATTGCAGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGGCCGCTGTACTCCCTG
ACGATTCCACTGTAACTACCAATCTTCTACTTGGTTAAGACAGTTTTTGTATCATTTTGTCTAAAAATTATT
GGCTTAAATCTGTGTAAAGAA

Figure 1

Homo sapiens casein kinase 1, delta (CSNK1D), transcript variant 2,
mRNA Wild type

GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
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CCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCGGTGAGGGGGGC
GGAGCCGGGAGCCGGACCCGAGTAGCGGCAGCAGCGGCGCCGCCTCCAGAGTTTACAGCCAGGAAGCG
GCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCCGCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGG
GCCGGAAGATCGGCAGCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGT
TGCCATCAAGCTTGAATGTGTCAAAACCAAACACCCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATG
ATGCAGGGGAGGAGTGGGCATCCCCACCATCAGATGGTGCGGGGCAGAGGGGGACTACAACGTCATGGTGA
TGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTCAGCCTCAAAACCGT
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GTGAAGCCAGACAACTTCCTCATGGGCCTGGGGAAGAAGGGCAACCTGGTGTACATCATCGACTTCGGGC
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GACGGCGCGGTACGCCTCCATCAACACGCACCTTGAATTTGAACAATCCCGAAGAGATGACTTGGAGTCT
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GACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCATCGAAGTGTGTGTAAAGGCTACCC
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CTGCCGCGAGCTTTTCCGGAATCTGTTCCATCGCCAGGGCTTCTCCTATGACTACGTGTTTCACTGGAACA
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TCTGTGCTGCACCGATGAGAACTCTCCTTATTGCTGTGAAGGGCAGACAATGCATGGCTGATCTACTCTG
TTACCAATGGCTTTACTAGTGACACGTCCCCCGGTCTAGGATCGAAATGTTAACACCGGGAGCTCTCCAG
GCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTCCAAGAGCTGCCACCGCTGG
GGCTGCACTGCGGCCCCCACGTGAACTCGGTTGTAACGGGGCTGGGAAGAAAAGCAGAGAGAGAATTGC
AGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGGCCGCCCTGTACTCCCTGACGATT
CCACTGTAACACCAATCTTCTACTTGGTTAAGACAGTTTTGTATCATTTTGCTAAAAATTATTGGCTTA
AATCTGTGTAAAGAAA
AAAAAA

Figure 2

A.

>gi|20149530|ref|NP_001884.2| casein kinase 1, delta, isoform 1 [Homo sapiens] Wild Type
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKTKHPQLHIESKIYKMMQGGVGIP TIRW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTS QIPGRVASSGLQSVVHR

B.

>gi|20544145|ref|NP_620693.1| casein kinase 1, delta, isoform 2 [Homo sapiens] Wild Type
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKTKHPQLHIESKIYKMMQGGVGIP TIRW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTS QNSIPFEHHGK

Figure 3

Homo sapiens mutant casein kinase 1, delta (CSNK1D)

GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
GCGGGGAGAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCTCGGACTGTCCCATCCGC
CCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCGGTGAGGGGGGC
GGAGCCGGGAGCCGGACCCGCGAGTAGCGGCAGCAGCGGCCCGCTCCAGAGTTCAGACCCAGGAAGCG
GCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGG
GCCGGAAGATCGGCAGCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGT
TGCCATCAAGCTTGAATGTGTCAAAAGCCAAACACCCTCAGCTCCACATTGAGAGCAAAAATCTACAAGATG
ATGCAGGGAGGAGTGGGCATCCCCACCATCAGATGGTGCGGGGCGAGAGGGGGACTACAACGTCATGGTGA
TGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTCAGCCTCAAAACCGT
CCTGCTGCTTGCTGACCAAATGATCAGTCGCATCGAATACATTCAATCAAAGAACTTCATCCACCGGGAT
GTGAAGCCAGACAACCTTCCTCATGGGCCTGGGGAAGAAGGGCAACCTGGTGTACATCATCGACTTCGGGC
TGGCCAAGAAGTACCGGGATGCACGCACCCACCAGCACATCCCCATCGTGAGAACAAGAACCTCACGGG
GACGGCGCGGTACGCCTCCATCAACACGCACCTTGGAATTGAACAATCCCGAAGAGATGACTTGAGTCT
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GACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCATCGAAGTGTTGTGTAAAGGCTACCC
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GAAGTGGCTCCCCCACACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCTCTCCG
GCATGGAGAGAGAGCGGAAAGTGAGTATGCGGCTGCACCGCGGGGCCCCCGTCAACATCTCCTCGTCCGA
CCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGATTCTGGTGGGTGGCTTCCAGTGGT
CTTCAGTCTGTGTCGACCGATGAGAACTCTCCTTATTGCTGTGAAGGGCAGACAATGCATGGCTGATCT
ACTCTGTTACCAATGGCTTTACTAGTGACACGTCCCCGGTCTAGGATCGAAATGTTAACACCGGGAGCT
CTCCAGGCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTCCAAGAGCTGCCAC
CGCTGGGGCTGCACTGCGGCCCCCAGCTGAACCTCGGTTGTAACGGGGCTGGGAAGAAAAGCAGAGAGAG
AATTGCAGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGGCCGCCCTGTACTCCCTG
ACGATTCCACTGTAACTACCAATCTTCTACTTGGTTAAGACAGTTTGTATCATTTTGCTAAAAATTATT
GGCTTAAATCTGTGTAAAGAA

Figure 4

Homo sapiens casein kinase 1, delta (CSNK1D), transcript variant 2,
mRNA Mutant

GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
GCGGGGAGAGGGCAAGCGGGACCGGTAGGGGGCCGGAGCAGCGGCGGCGCTCGGACTGTCCCATCCGC
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GAGACTCGCGGAACCCGGCTACCCGCGGCCTCCCTTCCACAGCCTCCGGCCGCTGCGGGGGACGCAG
GAAGTGGCTCCCCCACCACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCGTCTCCG
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CCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGAATAGCATTCTTTTGAACACCACGGC
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AGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGGCCGCCCTGTACTCCCTGACGATT
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AATCTGTGTAAAGAAA
AAAAAA

Figure 5

A.

>gi|20149530|ref|NP_001884.2| casein kinase 1, delta, isoform 1 [Homo sapiens] Mutant
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKAKHPQLHIESKIYKMMQGGVGIIPTIRW
CGAEGDYNVMVMELLGPSLEDLFNFC SRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTSQIPGRVASSGLQSVVHR

B.

>gi|20544145|ref|NP_620693.1| casein kinase 1, delta, isoform 2 [Homo sapiens] Mutant
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKAKHPQLHIESKIYKMMQGGVGIIPTIRW
CGAEGDYNVMVMELLGPSLEDLFNFC SRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTSQNSIPFEHHGK

Figure 6

[illegible]

Figure 7

>gi|4503093|ref|NP_001885.1| casein kinase 1 epsilon; CKI-epsilon;
casein kinase I epsilon [Homo sapiens] Wild Type
MELRVGNKYRLGRKIGSGSFGDIYLGANIASGEEVAIKLECVKTKHPQLHIESKFYKMMQGGVGIPSIKW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFSTYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGAARNPEDVDRERREHEREERMQLRGSATRALPPGPPTGATANRLRSAAEPVAS
TPASRIQPAGNTSPRAISRVDREKRVSMRLHRGAPANVSSDLTGRQEVSRIPASQTSVPFDHLGK

Figure 8

Homo sapiens mutant casein kinase 1, epsilon (CSNK1E)

[illegible]

Figure 9

>gi|4503093|ref|NP_001885.1| casein kinase 1 epsilon; CKI-epsilon;
casein kinase I epsilon [Homo sapiens] Mutant
MELRVGNKYRLGRKIGSGSFGDIYLGANITSGEEVAIKLECVKTKHPQLHIESKFYKMMQGGVGIPSIKW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFSTYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGAARNPEDVDRERREHEREERMQLRGSATRALPPGPPTGATANRLRSAAEPVAS
TPASRIQPAGNTSPRAISRVDREKRVSMRLHRGAPANVSSSDLTGRQEVSRIPASQTSVPFDHLGK

Figure 10